

FIG.1

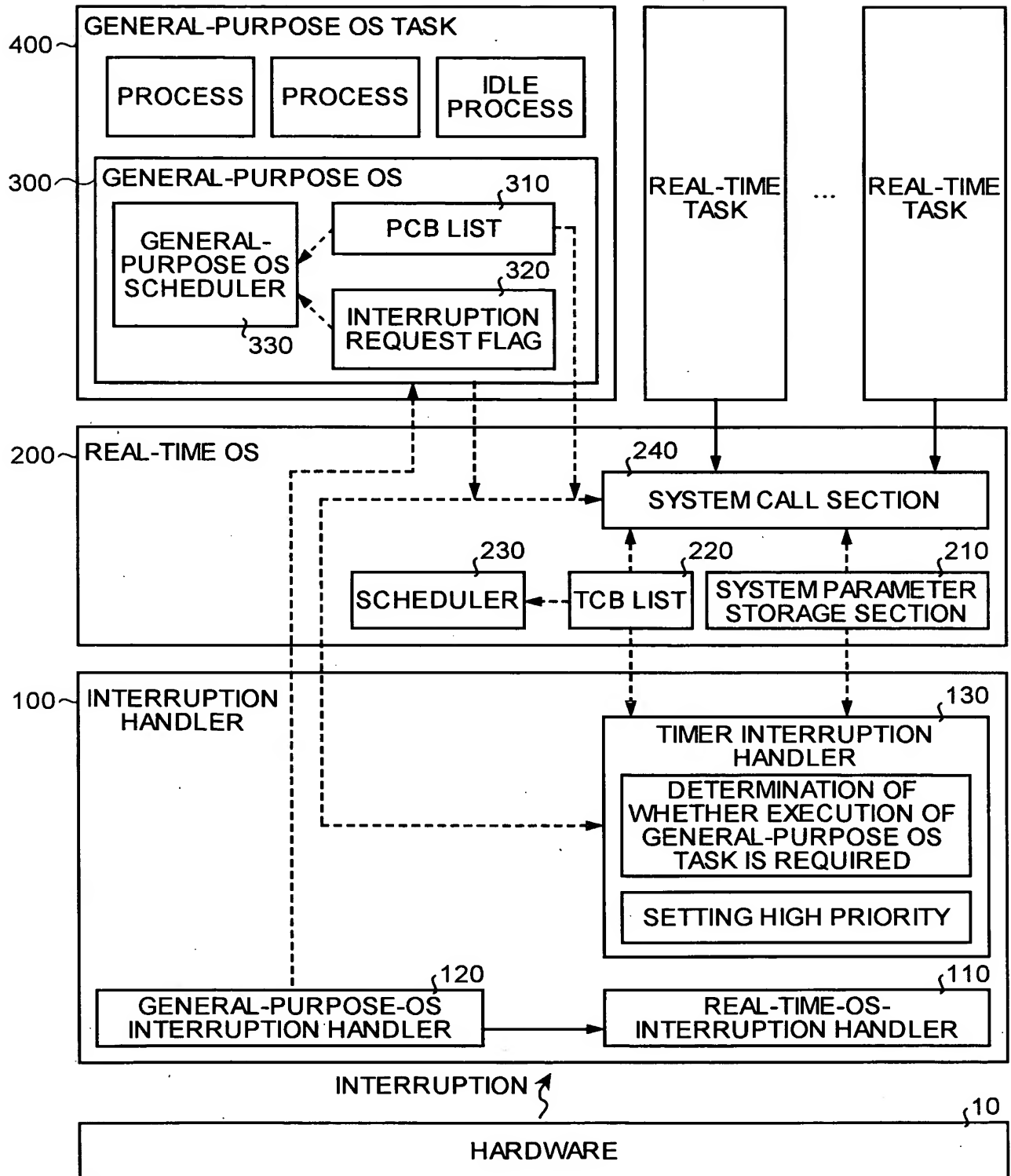


FIG.2

EQUILIBRATION PRIORITY	~401
EQUILIBRATION EXECUTION TIME	~402
DURATION TIME-OUT VALUE	~403

FIG.3

PRIMARY PRIORITY	~501
REAL PRIORITY	~502
EQUILIBRATION TIMER	~503
DURATION TIMER	~504

FIG.4

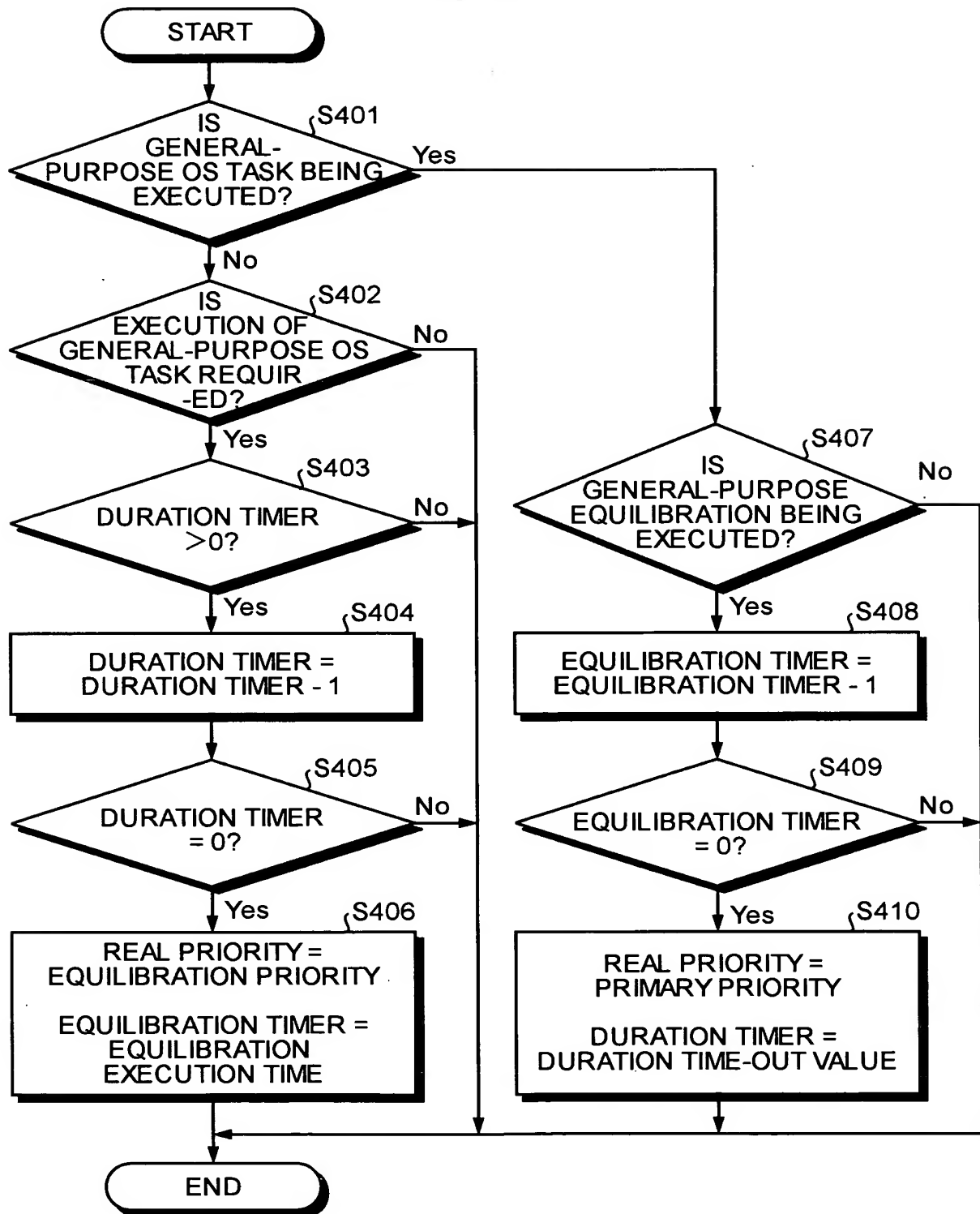


FIG.5

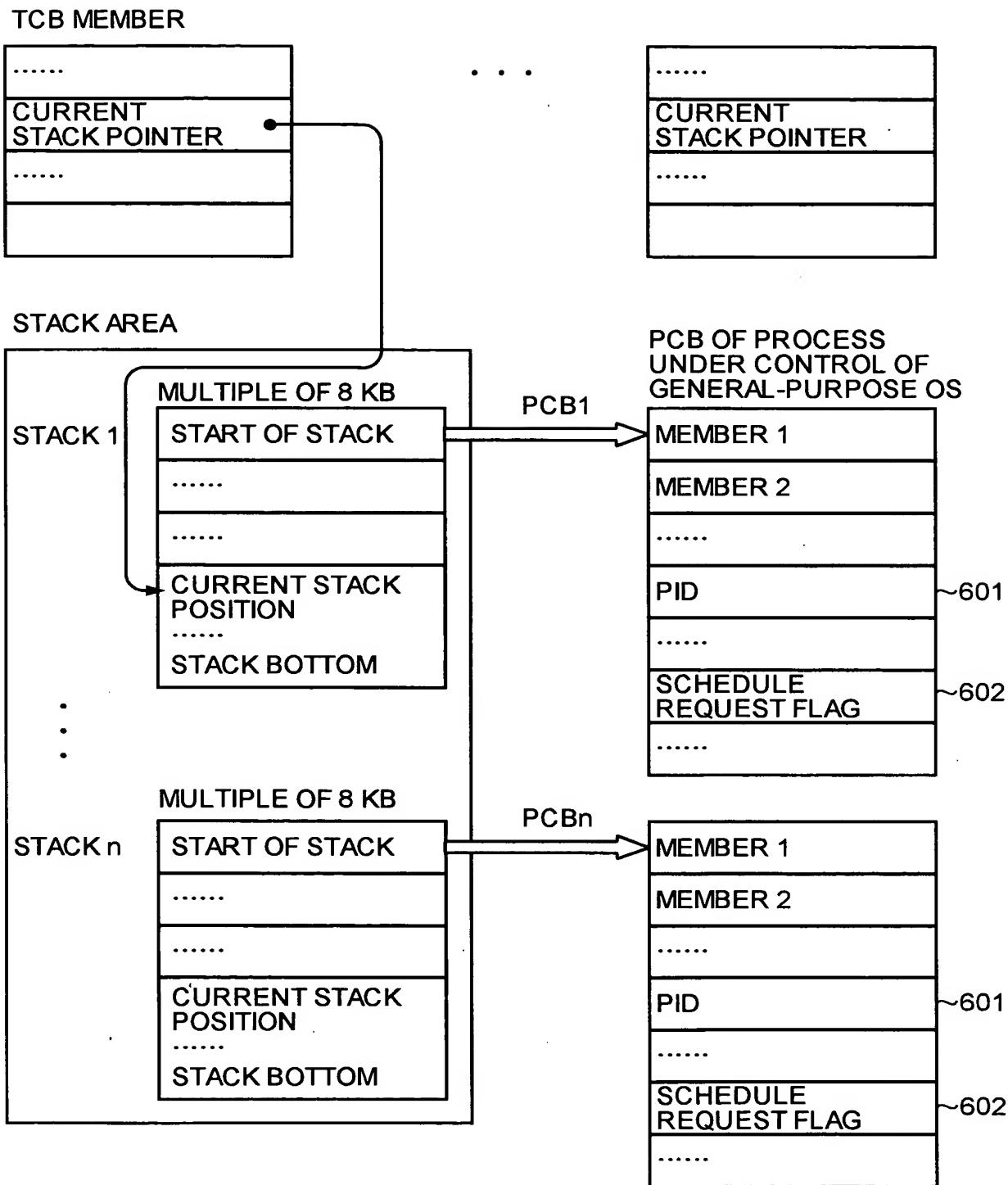


FIG.6

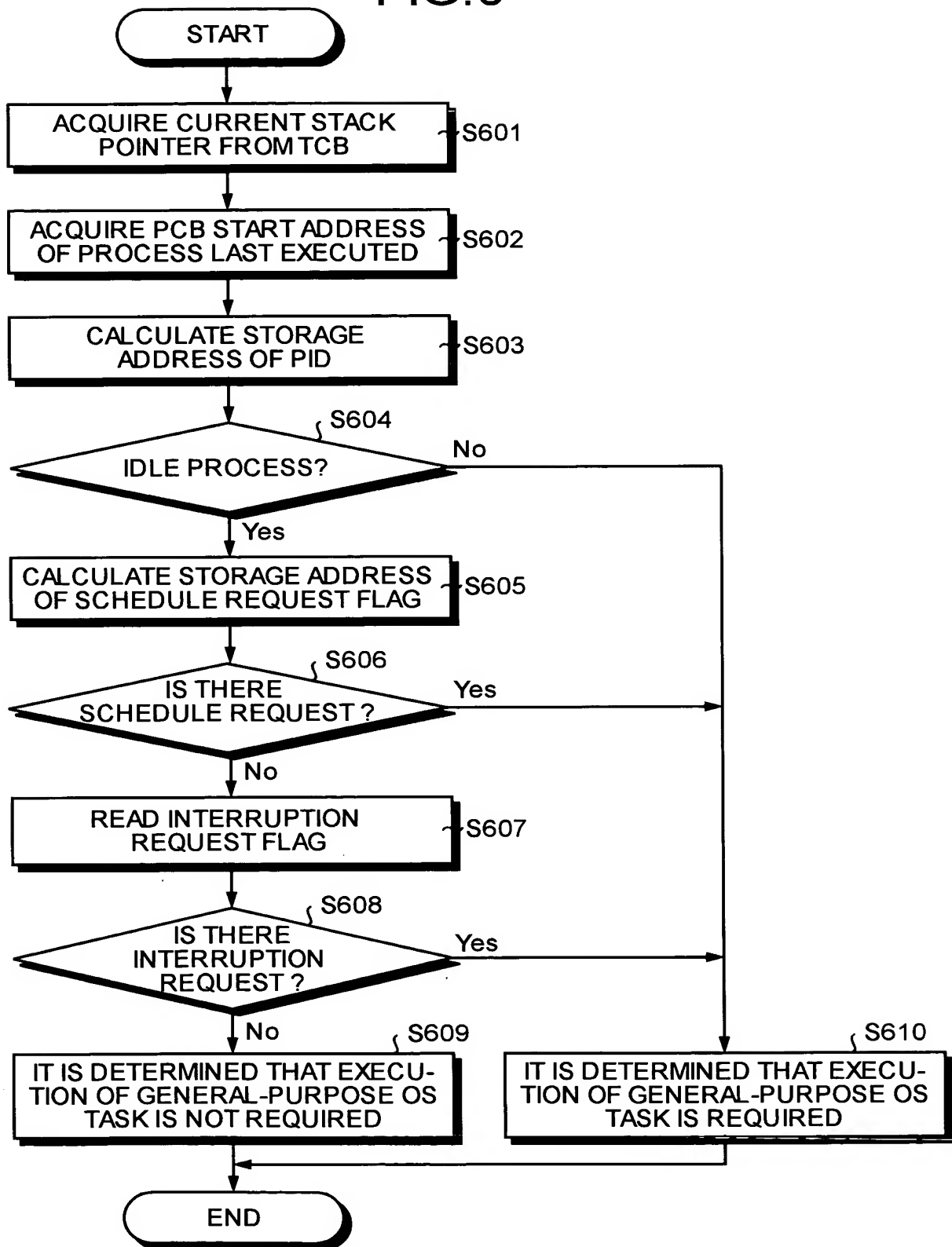


FIG.7

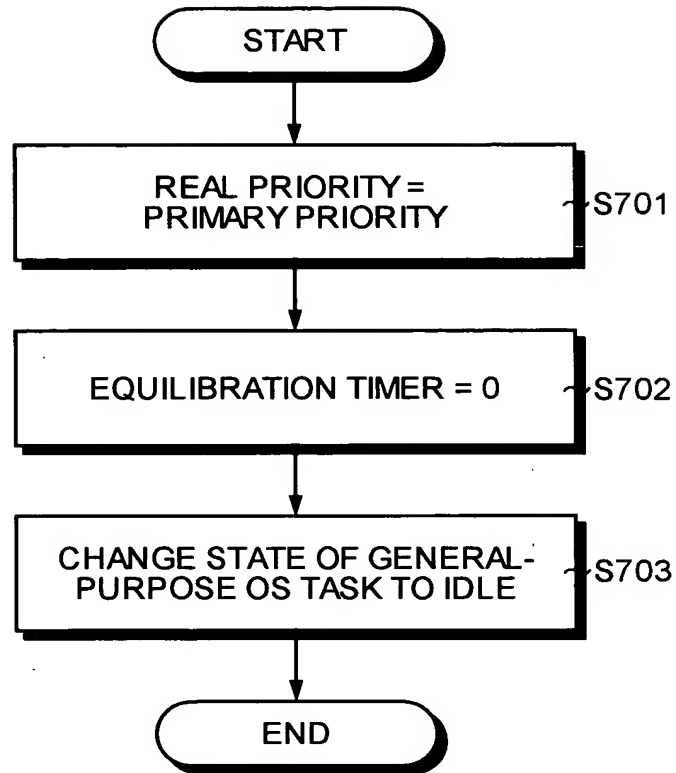


FIG.8

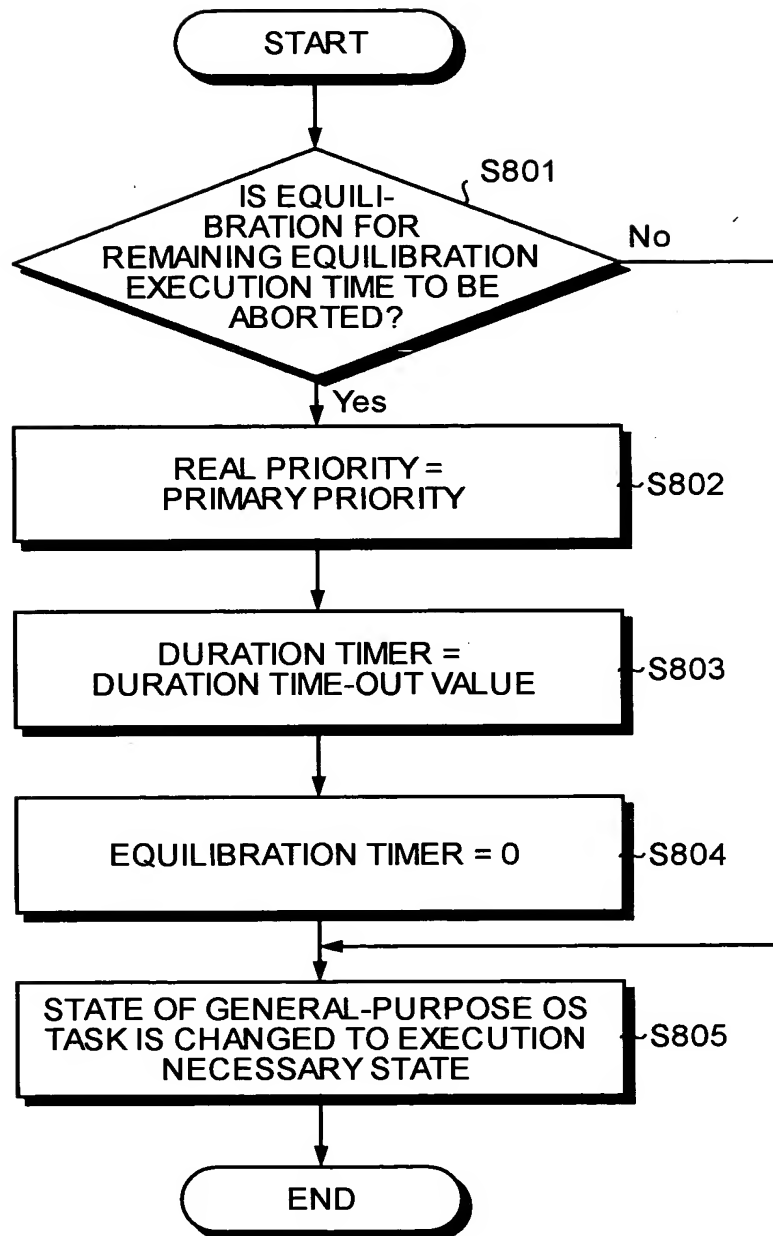


FIG.9

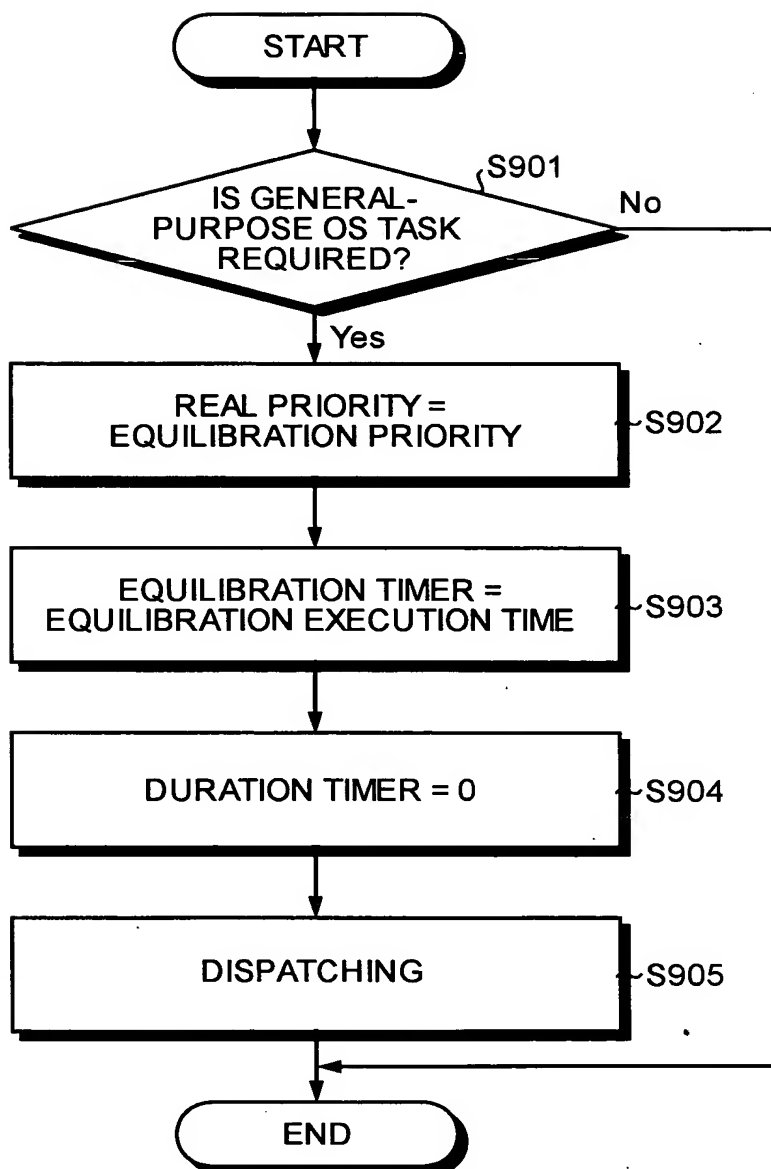


FIG.10

STATE TRANSITION OF GENERAL-PURPOSE OS TASK, AND OPERATION RELATED TO REAL-TIME OS FOR EQUILIBRATION									
STATE									
EVENT/ CONDITION	S1			S3			S4		S5
	INITIAL			EXECUTION IS NECESSARY (EQUILIBRATION PRIORITY)			EXECUTION		IDLE
	TRANSI- TION DESTI- NATION	OPERATION	EXECUTION IS NECESSARY (PRIMARY PRIORITY)	TRANSI- TION DESTI- NATION	OPERATION	TRANSI- TION DESTI- NATION	TRANSI- TION DESTI- NATION	OPERATION	TRANSI- TION DESTI- NATION
E1: TASK GENERATION	S2	• REAL PRIORITY = PRIMARY PRIORITY • DURATION TIME = DURATION TIME. OUT VALUE, START DURATION TIMER	—	—	—	—	—	—	—
E2: TIMER INTERRUPTION	—	—	DURATION TIMER-1	—	—	S4	—	IF EQUILIBRATION IS BEING EXECUT- ED, EQUILIBRATION TIMER - 1	—
E3: DURATION TIMER == 0	—	—	• REAL PRIORITY = EQUILIBRATION PRIORITY • EQUILIBRATION TIMER = EQUILI- BRATION EXECU- TION TIME	—	—	—	—	—	—
E4: TASK SWITCHING	—	—	STOP DURATION TIMER	S4	OPERATE EQUILIBRATION TIMER	S2	—	• REAL PRIORITY = PRIMARY PRIORITY • DURATION TIME = DURATION TIME. OUT VALUE, START DURATION TIMER	—
E5: EQUILIBRATION TIMER == 0	—	—	—	—	—	S2	—	• REAL PRIORITY = PRIMARY PRIORITY • DISPATCHING	—
E6: RESOURCE WAITING	—	—	—	—	—	S5	—	• REAL PRIORITY = PRIMARY PRIORITY • STOP EQUILIBRA- TION TIMER	—
E7: CANCELLATION OF RESOURCE WAITING	—	—	—	—	—	—	—	—	DURATION TIMER = DURATION TIME. OUT VALUE, START DURATION TIMER
E8: EQUILIBRATION REQUEST SYSTEM CALL	—	—	• REAL PRIORITY = EQUILIBRATION PRIORITY • EQUILIBRATION TIMER = EQUILI- BRATION EXECU- TION TIME	S3	—	—	—	—	—

FIG.11

